

Sub E1

ABSTRACT OF THE INVENTION

An electro-optical display device influenced little by differences in elemental devices. Specifically, an active matrix electro-optical device wherein a visual gradation display can be carried out by digitizing an analog image signal externally supplied by means of binary notation, by temporarily storing the digital signal thus obtained, by outputting the digital signal to a circuit of a next step in proper order, and by controlling the output timing of the signal so as to output the signal to the active matrix electro-optical device, whereby digitally controlling the time for applying voltage to a picture element. The display device preferably includes a substrate, at least one thin film transistor formed thereon, an interlayer insulating film formed over the thin film transistor, a leveling film formed over the interlayer film and the thin film transistor and a pixel electrode formed over the leveling film.

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